

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P332399-940

Luminaire Tested: **S123RDIW-S340D1030U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332399-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIW-S340D1030U940-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1030 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4398.0 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Indirect

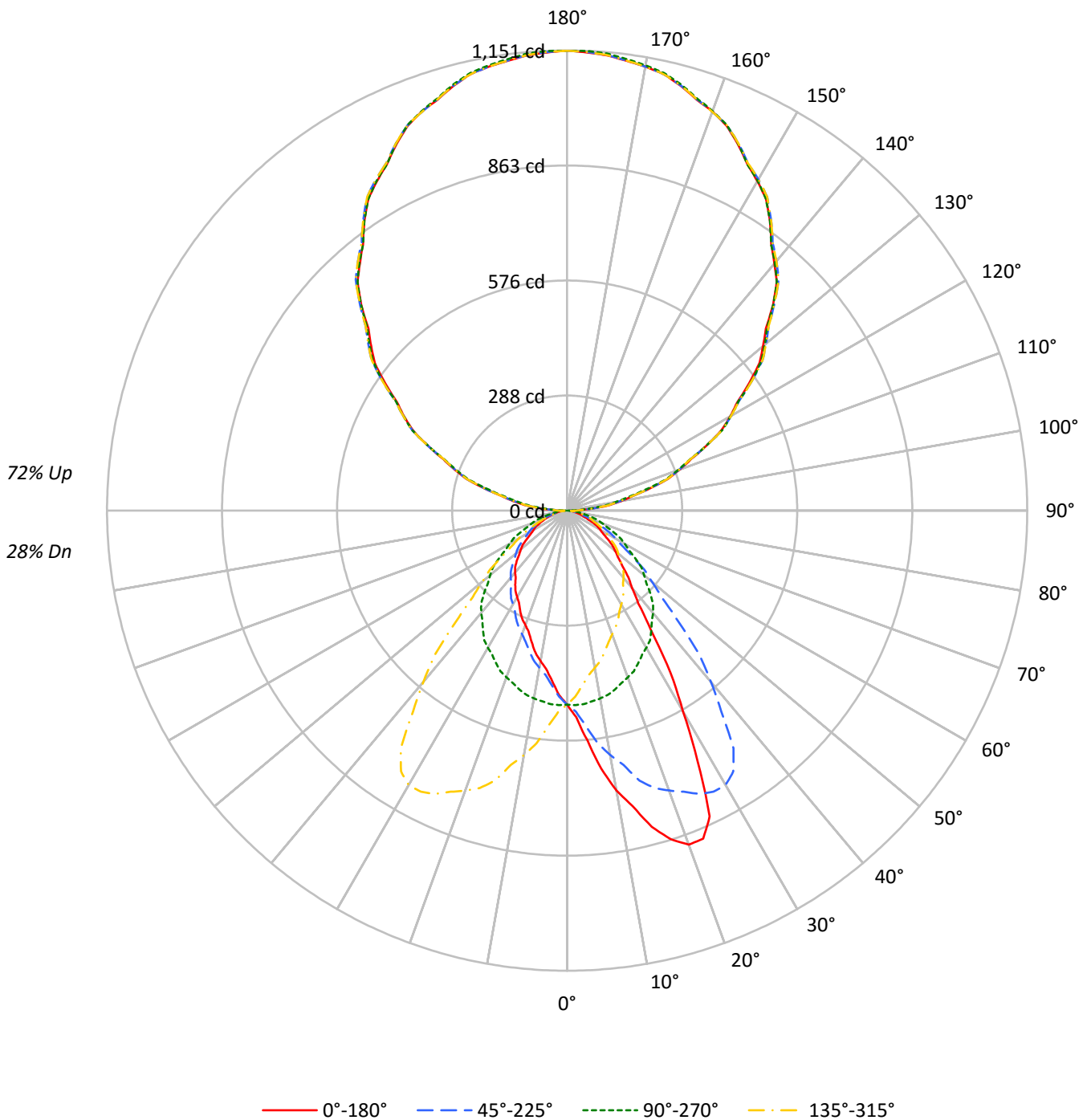
Input Watts (W): 38  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	102	102	102	102	91	91	91	91	71	71	71	52	52	52	36	36	36	28
1	93	89	85	82	83	80	77	74	62	60	59	46	45	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	52	49	41	39	37	28	27	26	20
3	78	69	62	56	69	62	56	51	49	45	41	37	34	32	25	24	23	18
4	71	61	54	48	63	55	49	44	43	39	35	33	30	27	23	21	20	15
5	65	54	47	41	58	49	42	38	39	34	31	29	26	24	21	19	17	14
6	60	49	41	36	54	44	37	33	35	30	27	27	23	21	19	17	15	12
7	55	44	36	31	50	40	33	29	32	27	24	24	21	19	17	15	14	11
8	51	40	32	27	46	36	30	25	29	24	21	22	19	17	16	14	12	10
9	48	36	29	24	43	33	27	22	26	22	19	20	17	15	15	13	11	9
10	45	33	26	22	40	30	24	20	24	20	17	19	16	13	14	12	10	8

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	5224	5224	5224	5224
5°	6227	5246	4620	5246
10°	7774	5216	4173	5216
15°	9126	5162	3806	5162
20°	10186	5082	3494	5082
25°	10023	4999	3301	4999
30°	7204	4922	3104	4922
35°	4809	4820	2975	4820
40°	3544	4700	2843	4700
45°	2973	4488	2714	4488
50°	2624	4210	2532	4210
55°	2301	3890	2284	3890
60°	2047	3587	2093	3587
65°	1798	3260	1946	3260
70°	1413	2968	1778	2968
75°	1243	2591	1626	2591
80°	1085	2201	1599	2201
85°	865	1778	1692	1778



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.7	1.1
10°-20°	149.1	3.4
20°-30°	234.2	5.3
30°-40°	244.4	5.6
40°-50°	209.1	4.8
50°-60°	159.4	3.6
60°-70°	102.2	2.3
70°-80°	49.1	1.1
80°-90°	16.4	0.4
90°-100°	74.9	1.7
100°-110°	224.2	5.1
110°-120°	381.4	8.7
120°-130°	501.7	11.4
130°-140°	563.9	12.8
140°-150°	554.3	12.6
150°-160°	466.6	10.6
160°-170°	310.6	7.1
170°-180°	108.8	2.5
0°-30°	431.1	9.8
0°-40°	675.4	15.4
0°-60°	1044.0	23.7
0°-90°	1211.7	27.6
90°-120°	680.6	15.5
90°-150°	2300.3	52.3
90°-180°	3186.0	72.4
0°-180°	4398.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	485	485	485	485	485	
5°	576	486	428	486	576	59
15°	819	463	342	463	819	232
25°	844	421	278	421	844	363
35°	366	367	226	367	366	240
45°	195	295	178	295	195	154
55°	123	207	122	207	123	111
65°	71	128	76	128	71	69
75°	30	62	39	62	30	32
85°	7	14	14	14	7	9
90°	27	1	27	1	27	13
95°	70	53	70	53	70	72
105°	215	203	215	203	215	228
115°	385	384	385	384	385	381
125°	556	562	556	562	556	497
135°	728	729	728	729	728	560
145°	884	884	884	884	884	552
155°	1011	1013	1011	1013	1011	465
165°	1100	1103	1100	1103	1100	310
175°	1143	1147	1143	1147	1143	109
180°	1150	1150	1150	1150	1150	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3
2.5°	516.9	517.5	515.4	515.1	512.6	511.9	511.9	508.4	506.2	503.5	501.8
5°	576.3	579.6	577.9	574.3	568.0	566.5	562.6	556.3	549.3	540.6	536.5
7.5°	650.5	655.1	653.3	647.6	641.0	635.7	624.6	614.2	599.8	587.0	576.1
10°	711.3	706.6	702.8	697.2	691.2	681.4	669.8	653.8	635.3	620.7	604.6
12.5°	756.9	756.1	751.4	745.6	737.1	727.8	713.5	694.0	672.5	651.5	632.9
15°	818.9	820.2	817.1	811.1	799.0	782.6	761.0	752.9	722.1	699.3	676.5
17.5°	861.9	861.7	861.2	852.9	840.6	828.9	808.9	787.6	759.7	727.5	696.8
20°	889.2	887.1	887.5	878.2	869.1	855.5	836.0	805.0	782.2	745.0	713.2
22.5°	888.5	888.1	889.7	886.4	879.9	869.5	854.1	828.0	798.8	761.3	725.5
25°	843.9	842.2	851.9	854.7	865.3	867.2	862.6	848.3	820.6	781.9	737.7
27.5°	706.2	705.3	723.4	746.2	774.9	797.3	818.9	829.3	820.6	792.9	748.6
30°	579.6	599.1	608.3	641.1	677.7	721.3	759.6	795.9	804.9	792.7	756.4
32.5°	481.3	498.3	506.0	534.0	568.2	619.3	676.6	728.1	764.5	773.6	751.8
35°	366.0	366.2	383.7	396.2	427.8	480.3	536.0	604.9	673.5	725.5	730.8
37.5°	292.1	293.1	303.7	316.1	339.8	367.6	416.6	473.9	553.1	632.8	679.7
40°	252.2	254.0	262.0	274.2	291.2	312.3	350.4	404.5	470.6	559.3	631.8
42.5°	226.6	229.6	233.7	243.2	253.7	273.4	304.3	346.0	406.1	490.0	573.6
45°	195.3	197.0	200.1	204.5	214.0	227.7	248.4	276.5	326.4	393.9	477.6
47.5°	172.3	171.4	174.7	178.2	184.6	193.9	207.9	230.7	266.3	320.5	391.5
50°	156.7	156.4	158.7	161.4	167.5	174.3	185.7	203.0	231.2	276.1	341.2
52.5°	142.0	142.8	144.5	147.8	152.1	157.7	167.9	180.4	204.6	243.3	297.6
55°	122.6	123.2	125.5	127.3	130.5	136.1	142.5	152.9	169.5	196.5	241.2
57.5°	106.1	105.8	108.0	108.5	112.0	116.5	121.5	129.7	141.7	161.8	191.8
60°	95.1	94.5	96.4	97.8	99.7	103.4	107.6	115.5	125.1	139.8	165.6
62.5°	85.2	84.9	86.2	87.7	89.3	92.6	96.1	102.2	109.8	122.2	142.7
65°	70.6	71.2	71.9	72.5	73.3	75.4	78.7	82.9	88.1	96.8	111.6
67.5°	55.6	56.2	56.4	57.6	59.4	60.7	62.8	66.4	70.1	77.4	85.8
70°	44.9	44.7	44.9	45.5	47.8	50.0	52.8	55.5	57.8	63.0	70.0
72.5°	38.5	38.2	38.7	38.9	39.9	40.6	42.3	44.9	47.8	51.3	56.4
75°	29.9	29.9	29.9	29.9	30.8	31.1	31.7	32.4	33.4	35.1	38.9
77.5°	22.1	22.1	22.5	22.6	22.8	23.1	23.5	24.1	24.4	25.3	26.9
80°	17.5	17.7	17.5	17.7	17.7	18.1	18.3	18.9	19.1	20.2	20.8
82.5°	13.1	13.0	13.1	13.4	13.4	13.7	13.8	14.3	14.3	14.8	15.4
85°	7.0	6.7	7.0	6.9	7.3	6.9	7.0	7.5	7.5	7.7	8.6
87.5°	7.0	7.3	7.0	7.0	7.0	7.0	6.8	6.7	6.9	6.5	6.2
90°	27.1	26.7	26.3	25.9	25.5	24.9	24.1	23.3	22.5	21.7	19.1
92.5°	36.5	36.7	37.0	37.2	37.5	37.3	36.6	35.9	35.3	34.7	33.2
95°	70.4	70.4	70.4	70.4	70.4	70.1	69.3	68.5	67.7	66.9	65.3
97.5°	108.4	108.5	108.6	108.6	108.7	108.3	107.4	106.5	105.6	104.6	103.4
100°	137.3	136.9	136.5	136.1	135.7	135.2	134.6	134.0	133.4	132.8	131.8
102.5°	166.9	167.0	167.1	167.2	167.3	167.0	166.4	165.8	165.2	164.6	163.3
105°	215.0	214.6	214.2	213.8	213.4	213.2	213.2	213.2	213.2	213.2	211.4
107.5°	265.0	265.3	265.6	265.8	266.0	265.8	265.2	264.6	263.9	263.2	262.5
110°	299.0	299.4	299.8	300.2	300.6	300.4	299.6	298.8	298.0	297.2	296.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	335.2	335.3	335.3	335.4	335.5	335.0	334.0	333.1	332.2	331.2	331.1
115°	384.9	385.0	385.2	385.5	385.7	385.7	385.5	385.2	385.0	384.9	385.2
117.5°	435.2	435.8	436.4	436.9	437.5	437.8	437.8	437.9	437.9	438.0	438.5
120°	470.6	471.1	471.4	471.9	472.3	472.6	472.8	473.0	473.1	473.4	474.4
122.5°	504.6	505.2	505.8	506.3	506.8	507.5	507.9	508.5	509.0	509.5	510.1
125°	555.6	556.4	557.2	558.0	558.8	559.6	560.4	561.2	562.0	562.8	563.2
127.5°	606.4	607.3	608.2	609.1	610.0	611.1	612.2	613.3	614.5	615.5	616.0
130°	639.6	641.1	642.4	643.8	645.2	646.3	647.1	647.9	648.7	649.5	650.1
132.5°	674.3	675.4	676.5	677.5	678.7	679.7	680.6	681.6	682.5	683.5	683.9
135°	728.2	728.5	729.0	729.3	729.8	730.3	731.1	731.9	732.7	733.5	733.8
137.5°	775.7	776.4	777.2	777.9	778.7	779.5	780.3	781.2	782.0	782.9	782.4
140°	806.7	808.2	809.6	810.9	812.3	813.2	813.3	813.6	813.8	814.0	813.8
142.5°	838.6	839.6	840.7	841.8	842.8	843.6	843.7	843.9	844.1	844.4	844.0
145°	884.4	885.2	886.0	886.8	887.6	888.1	888.3	888.6	888.8	888.9	888.3
147.5°	925.2	926.5	927.6	928.9	930.1	930.7	930.7	930.7	930.7	930.7	930.1
150°	951.3	952.5	953.7	954.9	956.1	956.7	956.7	956.7	956.7	956.7	956.3
152.5°	976.6	977.6	978.7	979.7	980.8	981.1	980.8	980.4	980.2	979.8	979.6
155°	1010.9	1012.4	1013.7	1015.1	1016.6	1016.8	1016.0	1015.2	1014.4	1013.6	1013.4
157.5°	1042.1	1043.3	1044.5	1045.5	1046.7	1046.8	1046.0	1045.1	1044.3	1043.4	1043.3
160°	1062.4	1063.2	1064.0	1064.8	1065.6	1065.5	1064.5	1063.5	1062.5	1061.5	1061.5
162.5°	1077.5	1078.9	1080.1	1081.5	1082.7	1082.9	1081.8	1080.8	1079.9	1078.9	1078.7
165°	1099.5	1100.8	1102.2	1103.7	1105.1	1105.2	1103.9	1102.8	1101.5	1100.4	1100.4
167.5°	1118.0	1119.3	1120.5	1121.8	1123.0	1123.0	1121.8	1120.5	1119.3	1118.0	1117.9
170°	1127.5	1128.8	1130.2	1131.7	1133.1	1133.1	1131.7	1130.2	1128.8	1127.5	1127.5
172.5°	1134.7	1136.0	1137.5	1138.9	1140.3	1140.4	1139.2	1137.9	1136.7	1135.4	1135.4
175°	1142.8	1144.2	1145.6	1147.0	1148.4	1148.5	1147.4	1146.1	1145.0	1143.7	1143.7
177.5°	1147.2	1148.3	1149.4	1150.5	1151.6	1151.7	1150.8	1149.8	1148.8	1147.9	1147.9
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3
2.5°	501.1	500.6	498.3	495.6	492.1	489.8	487.9	487.0	483.9	480.3	477.9
5°	532.1	525.8	519.2	511.0	503.5	495.9	491.2	485.5	478.7	471.0	465.6
7.5°	565.2	552.9	539.8	526.2	512.8	500.8	490.1	481.0	470.1	459.1	451.4
10°	590.7	572.7	554.3	535.4	518.2	501.9	489.5	477.2	464.1	451.5	441.8
12.5°	613.8	590.2	568.9	545.6	523.6	504.3	486.3	471.9	456.1	442.6	431.8
15°	643.0	618.8	593.2	557.8	528.5	504.0	482.1	463.2	444.2	427.6	417.0
17.5°	670.3	634.1	599.4	570.0	531.9	501.3	474.7	452.1	431.1	413.5	400.4
20°	681.6	646.5	608.9	571.3	534.0	499.6	468.7	443.7	422.0	402.0	389.9
22.5°	688.4	648.7	609.0	568.6	529.0	493.3	462.7	435.2	411.6	392.7	377.8
25°	696.3	649.0	605.4	565.5	525.0	486.3	450.0	420.9	395.4	375.2	359.4
27.5°	701.6	645.9	594.3	550.0	508.9	470.5	437.1	406.3	380.3	359.0	342.1
30°	702.6	643.4	585.9	537.9	496.1	460.7	425.4	396.0	368.5	345.9	330.1
32.5°	703.9	637.2	574.4	523.4	480.6	445.7	413.7	385.5	357.4	335.1	319.0
35°	698.5	633.8	557.0	498.4	455.6	421.7	392.9	366.8	339.3	317.6	301.2
37.5°	674.8	620.4	539.0	470.2	425.4	394.1	370.6	347.9	322.6	299.3	283.8
40°	651.1	607.1	525.0	453.1	406.4	374.2	352.9	334.5	310.0	288.1	271.5
42.5°	615.7	588.9	511.7	435.2	384.8	353.7	335.8	318.5	297.0	274.8	259.2
45°	550.7	554.3	484.5	406.5	354.8	323.7	306.8	294.8	275.7	257.4	241.4
47.5°	469.3	502.3	452.5	376.1	323.3	294.1	279.4	268.9	255.9	238.0	223.4
50°	416.2	463.2	427.0	355.7	303.5	274.5	259.9	251.4	240.1	226.0	212.1
52.5°	367.1	417.8	396.0	332.9	282.0	255.5	241.3	234.3	225.3	212.0	199.5
55°	299.3	350.7	345.7	298.5	249.9	226.0	215.3	207.3	201.3	191.4	181.4
57.5°	242.2	290.8	293.4	260.3	221.6	198.0	188.7	182.7	178.8	171.3	162.0
60°	206.1	250.7	259.5	234.5	201.3	180.6	171.4	166.6	163.5	157.5	150.4
62.5°	176.2	214.2	224.1	206.2	181.9	162.4	155.2	150.7	148.6	143.4	137.1
65°	134.8	166.4	175.9	166.0	153.3	137.8	131.9	128.0	126.1	123.2	118.6
67.5°	101.4	124.4	134.9	127.9	123.2	113.4	109.8	107.6	105.9	104.0	100.1
70°	81.4	98.4	109.2	107.5	103.7	98.4	95.8	94.3	92.6	91.0	87.7
72.5°	65.5	77.2	87.3	88.3	85.2	84.2	81.8	81.1	80.2	78.2	76.3
75°	43.4	51.5	58.6	61.3	62.5	63.6	62.5	62.3	62.2	60.5	59.4
77.5°	28.4	32.8	37.3	41.9	43.9	45.2	45.6	46.4	45.7	44.9	44.4
80°	21.8	22.8	25.9	29.9	33.0	34.2	35.1	35.5	35.3	35.1	34.2
82.5°	15.9	16.7	18.2	21.0	23.5	25.6	26.1	26.0	26.5	26.7	25.9
85°	8.6	8.7	9.2	9.5	11.0	13.3	13.9	14.4	14.7	14.7	13.5
87.5°	6.0	5.3	5.1	4.6	4.7	4.5	5.1	5.5	6.1	5.8	6.2
90°	16.5	13.8	11.2	8.9	7.0	4.9	2.9	0.9	2.9	4.9	7.0
92.5°	31.7	30.2	28.7	27.3	25.9	24.6	23.2	21.8	23.2	24.6	25.9
95°	63.7	62.1	60.5	58.9	57.5	56.1	54.7	53.3	54.7	56.1	57.5
97.5°	102.3	101.1	100.0	98.9	97.8	96.8	95.7	94.7	95.7	96.8	97.8
100°	130.8	129.8	128.8	127.7	126.4	125.3	124.0	122.9	124.0	125.3	126.4
102.5°	161.9	160.6	159.3	158.3	157.6	156.9	156.1	155.4	156.1	156.9	157.6
105°	209.6	207.8	206.0	204.9	204.5	204.1	203.7	203.3	203.7	204.1	204.5
107.5°	261.8	261.1	260.4	259.8	259.7	259.4	259.1	259.0	259.1	259.4	259.7
110°	296.4	296.0	295.6	295.2	294.8	294.4	294.0	293.6	294.0	294.4	294.8





TEST NUMBER: P332399-940

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	331.0	330.9	330.8	330.7	330.5	330.2	330.0	329.8	330.0	330.2	330.5
115°	385.7	386.0	386.5	386.4	385.8	385.1	384.5	384.0	384.5	385.1	385.8
117.5°	439.0	439.5	440.1	440.1	439.7	439.3	438.9	438.5	438.9	439.3	439.7
120°	475.4	476.4	477.4	477.3	476.1	474.9	473.7	472.5	473.7	474.9	476.1
122.5°	510.6	511.1	511.6	511.4	510.5	509.7	508.8	507.9	508.8	509.7	510.5
125°	563.7	564.0	564.5	564.4	563.7	563.1	562.5	562.0	562.5	563.1	563.7
127.5°	616.4	616.9	617.3	616.9	615.6	614.4	613.1	611.8	613.1	614.4	615.6
130°	650.8	651.4	651.9	651.5	649.9	648.3	646.7	645.1	646.7	648.3	649.9
132.5°	684.4	684.8	685.3	684.7	683.1	681.4	679.8	678.2	679.8	681.4	683.1
135°	734.0	734.1	734.3	733.9	732.6	731.5	730.2	729.1	730.2	731.5	732.6
137.5°	781.9	781.3	780.8	780.1	779.0	778.0	777.0	776.1	777.0	778.0	779.0
140°	813.6	813.3	813.2	812.5	811.5	810.6	809.6	808.5	809.6	810.6	811.5
142.5°	843.6	843.2	842.8	842.2	841.2	840.2	839.2	838.2	839.2	840.2	841.2
145°	887.8	887.2	886.5	886.0	885.6	885.2	884.8	884.4	884.8	885.2	885.6
147.5°	929.6	929.0	928.4	927.8	927.1	926.3	925.6	924.9	925.6	926.3	927.1
150°	955.9	955.5	955.1	954.7	954.3	953.9	953.5	953.1	953.5	953.9	954.3
152.5°	979.4	979.1	978.8	978.5	977.9	977.3	976.8	976.2	976.8	977.3	977.9
155°	1013.3	1013.0	1012.8	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7
157.5°	1043.1	1042.9	1042.8	1042.9	1043.0	1043.3	1043.6	1043.8	1043.6	1043.3	1043.0
160°	1061.5	1061.5	1061.5	1061.7	1062.1	1062.5	1062.9	1063.3	1062.9	1062.5	1062.1
162.5°	1078.5	1078.3	1078.2	1078.4	1079.0	1079.5	1080.1	1080.7	1080.1	1079.5	1079.0
165°	1100.4	1100.4	1100.4	1100.6	1101.3	1101.9	1102.4	1103.0	1102.4	1101.9	1101.3
167.5°	1117.8	1117.6	1117.4	1117.8	1118.6	1119.4	1120.2	1121.0	1120.2	1119.4	1118.6
170°	1127.5	1127.5	1127.5	1127.8	1128.6	1129.4	1130.2	1131.0	1130.2	1129.4	1128.6
172.5°	1135.4	1135.4	1135.4	1135.8	1136.6	1137.4	1138.2	1139.0	1138.2	1137.4	1136.6
175°	1143.7	1143.7	1143.7	1144.2	1145.0	1145.8	1146.6	1147.4	1146.6	1145.8	1145.0
177.5°	1147.9	1147.9	1147.9	1148.2	1148.8	1149.5	1150.1	1150.8	1150.1	1149.5	1148.8
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0



TEST NUMBER: P332399-940

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3
2.5°	477.0	474.8	473.3	470.0	467.9	465.6	463.2	464.7	464.5	464.4	464.4
5°	461.0	456.2	451.8	446.2	442.7	438.4	435.1	434.6	435.4	432.6	430.9
7.5°	445.1	438.6	432.4	426.2	419.6	414.4	411.2	409.6	407.5	405.7	403.9
10°	434.0	426.3	420.3	412.6	405.6	399.3	395.4	392.6	391.2	389.8	387.0
12.5°	422.5	415.0	407.3	398.6	391.9	384.7	381.7	378.7	375.9	374.3	370.6
15°	405.7	396.0	387.9	378.7	371.2	364.2	360.1	354.0	353.2	351.1	347.3
17.5°	388.9	378.4	367.1	360.3	352.0	344.6	338.2	336.3	330.3	328.1	324.8
20°	375.6	365.9	357.3	348.4	336.2	329.3	324.3	321.6	316.8	313.9	311.8
22.5°	364.2	354.2	344.4	333.9	323.9	316.1	312.5	308.3	305.7	301.6	299.3
25°	347.8	337.0	325.1	313.9	306.7	300.9	295.0	291.2	287.5	285.6	281.5
27.5°	328.8	317.4	306.4	297.8	288.9	283.2	277.9	274.6	270.1	267.0	264.7
30°	318.3	305.0	295.4	287.8	276.3	270.9	267.0	262.8	259.5	256.2	253.9
32.5°	306.1	294.0	285.0	275.4	266.7	260.7	255.7	252.0	249.1	246.0	243.7
35°	287.1	277.0	267.6	258.1	251.6	245.6	239.5	236.4	233.7	230.8	228.7
37.5°	269.9	260.4	251.5	242.5	234.4	229.5	224.7	222.3	218.6	216.7	214.6
40°	259.3	249.9	240.4	231.7	223.4	219.6	215.3	211.7	208.4	206.9	204.6
42.5°	247.6	238.3	230.2	220.9	214.0	208.9	204.9	201.1	198.6	196.4	195.2
45°	230.4	222.1	214.2	204.8	198.4	194.0	189.5	185.9	183.7	182.2	179.9
47.5°	213.7	205.4	197.3	189.2	183.0	178.0	173.3	170.9	167.9	166.1	164.6
50°	201.5	194.0	185.6	178.1	171.8	166.8	163.1	160.0	157.3	155.0	153.9
52.5°	190.4	182.4	175.0	168.1	161.5	155.9	152.5	149.2	147.1	144.5	143.3
55°	172.0	164.3	158.1	151.2	144.8	140.0	135.9	133.0	130.9	128.0	126.4
57.5°	154.8	147.8	140.4	134.5	127.9	123.9	120.4	116.5	113.9	111.6	109.9
60°	143.1	135.3	128.8	123.2	117.3	112.2	109.1	105.9	103.3	100.9	99.5
62.5°	131.0	124.1	118.0	111.9	106.6	102.0	98.4	95.9	93.5	92.0	90.5
65°	112.4	107.0	100.8	95.8	90.8	87.5	84.5	82.3	80.6	79.5	78.3
67.5°	95.2	90.1	84.6	79.7	76.3	73.8	72.0	70.0	69.1	67.8	67.0
70°	84.2	78.7	73.9	70.2	66.9	65.0	63.8	62.3	61.5	59.8	59.0
72.5°	72.1	68.1	64.6	61.6	58.9	57.2	55.6	53.9	52.5	50.6	49.8
75°	56.7	53.1	50.5	48.4	46.7	44.5	42.2	40.3	39.7	39.1	38.9
77.5°	42.0	39.8	37.8	36.0	34.0	32.4	31.8	31.4	31.3	30.9	30.9
80°	33.0	30.9	29.5	27.5	26.2	26.2	26.2	25.8	25.9	25.9	25.9
82.5°	24.5	22.6	21.8	21.1	20.9	21.0	21.0	21.1	21.0	21.3	21.1
85°	12.7	12.8	13.3	13.1	13.3	13.3	13.7	13.5	13.7	13.3	13.7
87.5°	6.4	7.4	8.1	8.7	9.5	9.8	10.2	10.3	10.6	10.8	10.9
90°	8.9	11.2	13.8	16.5	19.1	21.7	22.5	23.3	24.1	24.9	25.5
92.5°	27.3	28.7	30.2	31.7	33.2	34.7	35.3	35.9	36.6	37.3	37.5
95°	58.9	60.5	62.1	63.7	65.3	66.9	67.7	68.5	69.3	70.1	70.4
97.5°	98.9	100.0	101.1	102.3	103.4	104.6	105.6	106.5	107.4	108.3	108.7
100°	127.7	128.8	129.8	130.8	131.8	132.8	133.4	134.0	134.6	135.2	135.7
102.5°	158.3	159.3	160.6	161.9	163.3	164.6	165.2	165.8	166.4	167.0	167.3
105°	204.9	206.0	207.8	209.6	211.4	213.2	213.2	213.2	213.2	213.2	213.4
107.5°	259.8	260.4	261.1	261.8	262.5	263.2	263.9	264.6	265.2	265.8	266.0
110°	295.2	295.6	296.0	296.4	296.9	297.2	298.0	298.8	299.6	300.4	300.6



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	330.7	330.8	330.9	331.0	331.1	331.2	332.2	333.1	334.0	335.0	335.5
115°	386.4	386.5	386.0	385.7	385.2	384.9	385.0	385.2	385.5	385.7	385.7
117.5°	440.1	440.1	439.5	439.0	438.5	438.0	437.9	437.9	437.8	437.8	437.5
120°	477.3	477.4	476.4	475.4	474.4	473.4	473.1	473.0	472.8	472.6	472.3
122.5°	511.4	511.6	511.1	510.6	510.1	509.5	509.0	508.5	507.9	507.5	506.8
125°	564.4	564.5	564.0	563.7	563.2	562.8	562.0	561.2	560.4	559.6	558.8
127.5°	616.9	617.3	616.9	616.4	616.0	615.5	614.5	613.3	612.2	611.1	610.0
130°	651.5	651.9	651.4	650.8	650.1	649.5	648.7	647.9	647.1	646.3	645.2
132.5°	684.7	685.3	684.8	684.4	683.9	683.5	682.5	681.6	680.6	679.7	678.7
135°	733.9	734.3	734.1	734.0	733.8	733.5	732.7	731.9	731.1	730.3	729.8
137.5°	780.1	780.8	781.3	781.9	782.4	782.9	782.0	781.2	780.3	779.5	778.7
140°	812.5	813.2	813.3	813.6	813.8	814.0	813.8	813.6	813.3	813.2	812.3
142.5°	842.2	842.8	843.2	843.6	844.0	844.4	844.1	843.9	843.7	843.6	842.8
145°	886.0	886.5	887.2	887.8	888.3	888.9	888.8	888.6	888.3	888.1	887.6
147.5°	927.8	928.4	929.0	929.6	930.1	930.7	930.7	930.7	930.7	930.7	930.1
150°	954.7	955.1	955.5	955.9	956.3	956.7	956.7	956.7	956.7	956.7	956.1
152.5°	978.5	978.8	979.1	979.4	979.6	979.8	980.2	980.4	980.8	981.1	980.8
155°	1012.7	1012.8	1013.0	1013.3	1013.4	1013.6	1014.4	1015.2	1016.0	1016.8	1016.6
157.5°	1042.9	1042.8	1042.9	1043.1	1043.3	1043.4	1044.3	1045.1	1046.0	1046.8	1046.7
160°	1061.7	1061.5	1061.5	1061.5	1061.5	1061.5	1062.5	1063.5	1064.5	1065.5	1065.6
162.5°	1078.4	1078.2	1078.3	1078.5	1078.7	1078.9	1079.9	1080.8	1081.8	1082.9	1082.7
165°	1100.6	1100.4	1100.4	1100.4	1100.4	1100.4	1101.5	1102.8	1103.9	1105.2	1105.1
167.5°	1117.8	1117.4	1117.6	1117.8	1117.9	1118.0	1119.3	1120.5	1121.8	1123.0	1123.0
170°	1127.8	1127.5	1127.5	1127.5	1127.5	1127.5	1128.8	1130.2	1131.7	1133.1	1133.1
172.5°	1135.8	1135.4	1135.4	1135.4	1135.4	1135.4	1136.7	1137.9	1139.2	1140.4	1140.3
175°	1144.2	1143.7	1143.7	1143.7	1143.7	1143.7	1145.0	1146.1	1147.4	1148.5	1148.4
177.5°	1148.2	1147.9	1147.9	1147.9	1147.9	1147.9	1148.8	1149.8	1150.8	1151.7	1151.6
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0



TEST NUMBER: P332399-940

CATALOG NUMBER: S123RDIW-S340D1030U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3
2.5°	462.4	462.2	462.4	461.7	462.4	462.2	462.4	464.4	464.4	464.5	464.7
5°	430.3	430.1	429.4	427.6	429.4	430.1	430.3	430.9	432.6	435.4	434.6
7.5°	402.2	401.9	400.1	400.1	400.1	401.9	402.2	403.9	405.7	407.5	409.6
10°	385.6	385.8	383.3	381.8	383.3	385.8	385.6	387.0	389.8	391.2	392.6
12.5°	369.4	368.5	366.5	364.9	366.5	368.5	369.4	370.6	374.3	375.9	378.7
15°	348.2	346.1	341.2	341.5	341.2	346.1	348.2	347.3	351.1	353.2	354.0
17.5°	323.2	321.6	321.6	318.6	321.6	321.6	323.2	324.8	328.1	330.3	336.3
20°	308.5	307.5	307.9	305.0	307.9	307.5	308.5	311.8	313.9	316.8	321.6
22.5°	297.0	296.0	294.3	293.4	294.3	296.0	297.0	299.3	301.6	305.7	308.3
25°	280.3	278.6	277.0	277.9	277.0	278.6	280.3	281.5	285.6	287.5	291.2
27.5°	263.5	262.3	260.6	260.4	260.6	262.3	263.5	264.7	267.0	270.1	274.6
30°	252.8	251.6	250.7	249.7	250.7	251.6	252.8	253.9	256.2	259.5	262.8
32.5°	242.0	241.7	240.3	240.0	240.3	241.7	242.0	243.7	246.0	249.1	252.0
35°	227.9	226.7	226.2	226.4	226.2	226.7	227.9	228.7	230.8	233.7	236.4
37.5°	214.5	212.9	212.0	211.3	212.0	212.9	214.5	214.6	216.7	218.6	222.3
40°	204.8	203.2	202.8	202.3	202.8	203.2	204.8	204.6	206.9	208.4	211.7
42.5°	194.0	193.4	193.1	192.3	193.1	193.4	194.0	195.2	196.4	198.6	201.1
45°	179.3	179.1	177.8	178.3	177.8	179.1	179.3	179.9	182.2	183.7	185.9
47.5°	163.7	162.8	161.9	162.6	161.9	162.8	163.7	164.6	166.1	167.9	170.9
50°	153.1	152.7	150.8	151.2	150.8	152.7	153.1	153.9	155.0	157.3	160.0
52.5°	142.5	140.9	140.2	139.9	140.2	140.9	142.5	143.3	144.5	147.1	149.2
55°	124.8	123.0	122.2	121.7	122.2	123.0	124.8	126.4	128.0	130.9	133.0
57.5°	107.5	107.1	106.4	106.8	106.4	107.1	107.5	109.9	111.6	113.9	116.5
60°	97.5	97.5	97.5	97.2	97.5	97.5	97.5	99.5	100.9	103.3	105.9
62.5°	89.6	89.1	89.0	89.3	89.0	89.1	89.6	90.5	92.0	93.5	95.9
65°	77.7	77.5	76.7	76.4	76.7	77.5	77.7	78.3	79.5	80.6	82.3
67.5°	66.4	65.7	65.5	65.2	65.5	65.7	66.4	67.0	67.8	69.1	70.0
70°	58.0	57.5	56.3	56.5	56.3	57.5	58.0	59.0	59.8	61.5	62.3
72.5°	48.9	48.4	48.2	47.9	48.2	48.4	48.9	49.8	50.6	52.5	53.9
75°	38.6	38.4	38.3	39.1	38.3	38.4	38.6	38.9	39.1	39.7	40.3
77.5°	30.9	30.9	31.1	30.8	31.1	30.9	30.9	30.9	30.9	31.3	31.4
80°	25.9	25.9	25.8	25.8	25.8	25.9	25.9	25.9	25.9	25.9	25.8
82.5°	20.8	21.0	21.1	20.8	21.1	21.0	20.8	21.1	21.3	21.0	21.1
85°	13.7	13.5	13.9	13.7	13.9	13.5	13.7	13.7	13.3	13.7	13.5
87.5°	11.3	11.1	11.1	11.4	11.1	11.1	11.3	10.9	10.8	10.6	10.3
90°	25.9	26.3	26.7	27.1	26.7	26.3	25.9	25.5	24.9	24.1	23.3
92.5°	37.2	37.0	36.7	36.5	36.7	37.0	37.2	37.5	37.3	36.6	35.9
95°	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.1	69.3	68.5
97.5°	108.6	108.6	108.5	108.4	108.5	108.6	108.6	108.7	108.3	107.4	106.5
100°	136.1	136.5	136.9	137.3	136.9	136.5	136.1	135.7	135.2	134.6	134.0
102.5°	167.2	167.1	167.0	166.9	167.0	167.1	167.2	167.3	167.0	166.4	165.8
105°	213.8	214.2	214.6	215.0	214.6	214.2	213.8	213.4	213.2	213.2	213.2
107.5°	265.8	265.6	265.3	265.0	265.3	265.6	265.8	266.0	265.8	265.2	264.6
110°	300.2	299.8	299.4	299.0	299.4	299.8	300.2	300.6	300.4	299.6	298.8



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	335.4	335.3	335.3	335.2	335.3	335.3	335.4	335.5	335.0	334.0	333.1
115°	385.5	385.2	385.0	384.9	385.0	385.2	385.5	385.7	385.7	385.5	385.2
117.5°	436.9	436.4	435.8	435.2	435.8	436.4	436.9	437.5	437.8	437.8	437.9
120°	471.9	471.4	471.1	470.6	471.1	471.4	471.9	472.3	472.6	472.8	473.0
122.5°	506.3	505.8	505.2	504.6	505.2	505.8	506.3	506.8	507.5	507.9	508.5
125°	558.0	557.2	556.4	555.6	556.4	557.2	558.0	558.8	559.6	560.4	561.2
127.5°	609.1	608.2	607.3	606.4	607.3	608.2	609.1	610.0	611.1	612.2	613.3
130°	643.8	642.4	641.1	639.6	641.1	642.4	643.8	645.2	646.3	647.1	647.9
132.5°	677.5	676.5	675.4	674.3	675.4	676.5	677.5	678.7	679.7	680.6	681.6
135°	729.3	729.0	728.5	728.2	728.5	729.0	729.3	729.8	730.3	731.1	731.9
137.5°	777.9	777.2	776.4	775.7	776.4	777.2	777.9	778.7	779.5	780.3	781.2
140°	810.9	809.6	808.2	806.7	808.2	809.6	810.9	812.3	813.2	813.3	813.6
142.5°	841.8	840.7	839.6	838.6	839.6	840.7	841.8	842.8	843.6	843.7	843.9
145°	886.8	886.0	885.2	884.4	885.2	886.0	886.8	887.6	888.1	888.3	888.6
147.5°	928.9	927.6	926.5	925.2	926.5	927.6	928.9	930.1	930.7	930.7	930.7
150°	954.9	953.7	952.5	951.3	952.5	953.7	954.9	956.1	956.7	956.7	956.7
152.5°	979.7	978.7	977.6	976.6	977.6	978.7	979.7	980.8	981.1	980.8	980.4
155°	1015.1	1013.7	1012.4	1010.9	1012.4	1013.7	1015.1	1016.6	1016.8	1016.0	1015.2
157.5°	1045.5	1044.5	1043.3	1042.1	1043.3	1044.5	1045.5	1046.7	1046.8	1046.0	1045.1
160°	1064.8	1064.0	1063.2	1062.4	1063.2	1064.0	1064.8	1065.6	1065.5	1064.5	1063.5
162.5°	1081.5	1080.1	1078.9	1077.5	1078.9	1080.1	1081.5	1082.7	1082.9	1081.8	1080.8
165°	1103.7	1102.2	1100.8	1099.5	1100.8	1102.2	1103.7	1105.1	1105.2	1103.9	1102.8
167.5°	1121.8	1120.5	1119.3	1118.0	1119.3	1120.5	1121.8	1123.0	1123.0	1121.8	1120.5
170°	1131.7	1130.2	1128.8	1127.5	1128.8	1130.2	1131.7	1133.1	1133.1	1131.7	1130.2
172.5°	1138.9	1137.5	1136.0	1134.7	1136.0	1137.5	1138.9	1140.3	1140.4	1139.2	1137.9
175°	1147.0	1145.6	1144.2	1142.8	1144.2	1145.6	1147.0	1148.4	1148.5	1147.4	1146.1
177.5°	1150.5	1149.4	1148.3	1147.2	1148.3	1149.4	1150.5	1151.6	1151.7	1150.8	1149.8
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0



TEST NUMBER: P332399-940

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3
2.5°	463.2	465.6	467.9	470.0	473.3	474.8	477.0	477.9	480.3	483.9	487.0
5°	435.1	438.4	442.7	446.2	451.8	456.2	461.0	465.6	471.0	478.7	485.5
7.5°	411.2	414.4	419.6	426.2	432.4	438.6	445.1	451.4	459.1	470.1	481.0
10°	395.4	399.3	405.6	412.6	420.3	426.3	434.0	441.8	451.5	464.1	477.2
12.5°	381.7	384.7	391.9	398.6	407.3	415.0	422.5	431.8	442.6	456.1	471.9
15°	360.1	364.2	371.2	378.7	387.9	396.0	405.7	417.0	427.6	444.2	463.2
17.5°	338.2	344.6	352.0	360.3	367.1	378.4	388.9	400.4	413.5	431.1	452.1
20°	324.3	329.3	336.2	348.4	357.3	365.9	375.6	389.9	402.0	422.0	443.7
22.5°	312.5	316.1	323.9	333.9	344.4	354.2	364.2	377.8	392.7	411.6	435.2
25°	295.0	300.9	306.7	313.9	325.1	337.0	347.8	359.4	375.2	395.4	420.9
27.5°	277.9	283.2	288.9	297.8	306.4	317.4	328.8	342.1	359.0	380.3	406.3
30°	267.0	270.9	276.3	287.8	295.4	305.0	318.3	330.1	345.9	368.5	396.0
32.5°	255.7	260.7	266.7	275.4	285.0	294.0	306.1	319.0	335.1	357.4	385.5
35°	239.5	245.6	251.6	258.1	267.6	277.0	287.1	301.2	317.6	339.3	366.8
37.5°	224.7	229.5	234.4	242.5	251.5	260.4	269.9	283.8	299.3	322.6	347.9
40°	215.3	219.6	223.4	231.7	240.4	249.9	259.3	271.5	288.1	310.0	334.5
42.5°	204.9	208.9	214.0	220.9	230.2	238.3	247.6	259.2	274.8	297.0	318.5
45°	189.5	194.0	198.4	204.8	214.2	222.1	230.4	241.4	257.4	275.7	294.8
47.5°	173.3	178.0	183.0	189.2	197.3	205.4	213.7	223.4	238.0	255.9	268.9
50°	163.1	166.8	171.8	178.1	185.6	194.0	201.5	212.1	226.0	240.1	251.4
52.5°	152.5	155.9	161.5	168.1	175.0	182.4	190.4	199.5	212.0	225.3	234.3
55°	135.9	140.0	144.8	151.2	158.1	164.3	172.0	181.4	191.4	201.3	207.3
57.5°	120.4	123.9	127.9	134.5	140.4	147.8	154.8	162.0	171.3	178.8	182.7
60°	109.1	112.2	117.3	123.2	128.8	135.3	143.1	150.4	157.5	163.5	166.6
62.5°	98.4	102.0	106.6	111.9	118.0	124.1	131.0	137.1	143.4	148.6	150.7
65°	84.5	87.5	90.8	95.8	100.8	107.0	112.4	118.6	123.2	126.1	128.0
67.5°	72.0	73.8	76.3	79.7	84.6	90.1	95.2	100.1	104.0	105.9	107.6
70°	63.8	65.0	66.9	70.2	73.9	78.7	84.2	87.7	91.0	92.6	94.3
72.5°	55.6	57.2	58.9	61.6	64.6	68.1	72.1	76.3	78.2	80.2	81.1
75°	42.2	44.5	46.7	48.4	50.5	53.1	56.7	59.4	60.5	62.2	62.3
77.5°	31.8	32.4	34.0	36.0	37.8	39.8	42.0	44.4	44.9	45.7	46.4
80°	26.2	26.2	26.2	27.5	29.5	30.9	33.0	34.2	35.1	35.3	35.5
82.5°	21.0	21.0	20.9	21.1	21.8	22.6	24.5	25.9	26.7	26.5	26.0
85°	13.7	13.3	13.3	13.1	13.3	12.8	12.7	13.5	14.7	14.7	14.4
87.5°	10.2	9.8	9.5	8.7	8.1	7.4	6.4	6.2	5.8	6.1	5.5
90°	22.5	21.7	19.1	16.5	13.8	11.2	8.9	7.0	4.9	2.9	0.9
92.5°	35.3	34.7	33.2	31.7	30.2	28.7	27.3	25.9	24.6	23.2	21.8
95°	67.7	66.9	65.3	63.7	62.1	60.5	58.9	57.5	56.1	54.7	53.3
97.5°	105.6	104.6	103.4	102.3	101.1	100.0	98.9	97.8	96.8	95.7	94.7
100°	133.4	132.8	131.8	130.8	129.8	128.8	127.7	126.4	125.3	124.0	122.9
102.5°	165.2	164.6	163.3	161.9	160.6	159.3	158.3	157.6	156.9	156.1	155.4
105°	213.2	213.2	211.4	209.6	207.8	206.0	204.9	204.5	204.1	203.7	203.3
107.5°	263.9	263.2	262.5	261.8	261.1	260.4	259.8	259.7	259.4	259.1	259.0
110°	298.0	297.2	296.9	296.4	296.0	295.6	295.2	294.8	294.4	294.0	293.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	332.2	331.2	331.1	331.0	330.9	330.8	330.7	330.5	330.2	330.0	329.8
115°	385.0	384.9	385.2	385.7	386.0	386.5	386.4	385.8	385.1	384.5	384.0
117.5°	437.9	438.0	438.5	439.0	439.5	440.1	440.1	439.7	439.3	438.9	438.5
120°	473.1	473.4	474.4	475.4	476.4	477.4	477.3	476.1	474.9	473.7	472.5
122.5°	509.0	509.5	510.1	510.6	511.1	511.6	511.4	510.5	509.7	508.8	507.9
125°	562.0	562.8	563.2	563.7	564.0	564.5	564.4	563.7	563.1	562.5	562.0
127.5°	614.5	615.5	616.0	616.4	616.9	617.3	616.9	615.6	614.4	613.1	611.8
130°	648.7	649.5	650.1	650.8	651.4	651.9	651.5	649.9	648.3	646.7	645.1
132.5°	682.5	683.5	683.9	684.4	684.8	685.3	684.7	683.1	681.4	679.8	678.2
135°	732.7	733.5	733.8	734.0	734.1	734.3	733.9	732.6	731.5	730.2	729.1
137.5°	782.0	782.9	782.4	781.9	781.3	780.8	780.1	779.0	778.0	777.0	776.1
140°	813.8	814.0	813.8	813.6	813.3	813.2	812.5	811.5	810.6	809.6	808.5
142.5°	844.1	844.4	844.0	843.6	843.2	842.8	842.2	841.2	840.2	839.2	838.2
145°	888.8	888.9	888.3	887.8	887.2	886.5	886.0	885.6	885.2	884.8	884.4
147.5°	930.7	930.7	930.1	929.6	929.0	928.4	927.8	927.1	926.3	925.6	924.9
150°	956.7	956.7	956.3	955.9	955.5	955.1	954.7	954.3	953.9	953.5	953.1
152.5°	980.2	979.8	979.6	979.4	979.1	978.8	978.5	977.9	977.3	976.8	976.2
155°	1014.4	1013.6	1013.4	1013.3	1013.0	1012.8	1012.7	1012.7	1012.7	1012.7	1012.7
157.5°	1044.3	1043.4	1043.3	1043.1	1042.9	1042.8	1042.9	1043.0	1043.3	1043.6	1043.8
160°	1062.5	1061.5	1061.5	1061.5	1061.5	1061.5	1061.7	1062.1	1062.5	1062.9	1063.3
162.5°	1079.9	1078.9	1078.7	1078.5	1078.3	1078.2	1078.4	1079.0	1079.5	1080.1	1080.7
165°	1101.5	1100.4	1100.4	1100.4	1100.4	1100.4	1100.6	1101.3	1101.9	1102.4	1103.0
167.5°	1119.3	1118.0	1117.9	1117.8	1117.6	1117.4	1117.8	1118.6	1119.4	1120.2	1121.0
170°	1128.8	1127.5	1127.5	1127.5	1127.5	1127.5	1127.8	1128.6	1129.4	1130.2	1131.0
172.5°	1136.7	1135.4	1135.4	1135.4	1135.4	1135.4	1135.8	1136.6	1137.4	1138.2	1139.0
175°	1145.0	1143.7	1143.7	1143.7	1143.7	1143.7	1144.2	1145.0	1145.8	1146.6	1147.4
177.5°	1148.8	1147.9	1147.9	1147.9	1147.9	1147.9	1148.2	1148.8	1149.5	1150.1	1150.8
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0



TEST NUMBER: P332399-940

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3
2.5°	487.9	489.8	492.1	495.6	498.3	500.6	501.1	501.8	503.5	506.2	508.4
5°	491.2	495.9	503.5	511.0	519.2	525.8	532.1	536.5	540.6	549.3	556.3
7.5°	490.1	500.8	512.8	526.2	539.8	552.9	565.2	576.1	587.0	599.8	614.2
10°	489.5	501.9	518.2	535.4	554.3	572.7	590.7	604.6	620.7	635.3	653.8
12.5°	486.3	504.3	523.6	545.6	568.9	590.2	613.8	632.9	651.5	672.5	694.0
15°	482.1	504.0	528.5	557.8	593.2	618.8	643.0	676.5	699.3	722.1	752.9
17.5°	474.7	501.3	531.9	570.0	599.4	634.1	670.3	696.8	727.5	759.7	787.6
20°	468.7	499.6	534.0	571.3	608.9	646.5	681.6	713.2	745.0	782.2	805.0
22.5°	462.7	493.3	529.0	568.6	609.0	648.7	688.4	725.5	761.3	798.8	828.0
25°	450.0	486.3	525.0	565.5	605.4	649.0	696.3	737.7	781.9	820.6	848.3
27.5°	437.1	470.5	508.9	550.0	594.3	645.9	701.6	748.6	792.9	820.6	829.3
30°	425.4	460.7	496.1	537.9	585.9	643.4	702.6	756.4	792.7	804.9	795.9
32.5°	413.7	445.7	480.6	523.4	574.4	637.2	703.9	751.8	773.6	764.5	728.1
35°	392.9	421.7	455.6	498.4	557.0	633.8	698.5	730.8	725.5	673.5	604.9
37.5°	370.6	394.1	425.4	470.2	539.0	620.4	674.8	679.7	632.8	553.1	473.9
40°	352.9	374.2	406.4	453.1	525.0	607.1	651.1	631.8	559.3	470.6	404.5
42.5°	335.8	353.7	384.8	435.2	511.7	588.9	615.7	573.6	490.0	406.1	346.0
45°	306.8	323.7	354.8	406.5	484.5	554.3	550.7	477.6	393.9	326.4	276.5
47.5°	279.4	294.1	323.3	376.1	452.5	502.3	469.3	391.5	320.5	266.3	230.7
50°	259.9	274.5	303.5	355.7	427.0	463.2	416.2	341.2	276.1	231.2	203.0
52.5°	241.3	255.5	282.0	332.9	396.0	417.8	367.1	297.6	243.3	204.6	180.4
55°	215.3	226.0	249.9	298.5	345.7	350.7	299.3	241.2	196.5	169.5	152.9
57.5°	188.7	198.0	221.6	260.3	293.4	290.8	242.2	191.8	161.8	141.7	129.7
60°	171.4	180.6	201.3	234.5	259.5	250.7	206.1	165.6	139.8	125.1	115.5
62.5°	155.2	162.4	181.9	206.2	224.1	214.2	176.2	142.7	122.2	109.8	102.2
65°	131.9	137.8	153.3	166.0	175.9	166.4	134.8	111.6	96.8	88.1	82.9
67.5°	109.8	113.4	123.2	127.9	134.9	124.4	101.4	85.8	77.4	70.1	66.4
70°	95.8	98.4	103.7	107.5	109.2	98.4	81.4	70.0	63.0	57.8	55.5
72.5°	81.8	84.2	85.2	88.3	87.3	77.2	65.5	56.4	51.3	47.8	44.9
75°	62.5	63.6	62.5	61.3	58.6	51.5	43.4	38.9	35.1	33.4	32.4
77.5°	45.6	45.2	43.9	41.9	37.3	32.8	28.4	26.9	25.3	24.4	24.1
80°	35.1	34.2	33.0	29.9	25.9	22.8	21.8	20.8	20.2	19.1	18.9
82.5°	26.1	25.6	23.5	21.0	18.2	16.7	15.9	15.4	14.8	14.3	14.3
85°	13.9	13.3	11.0	9.5	9.2	8.7	8.6	8.6	7.7	7.5	7.5
87.5°	5.1	4.5	4.7	4.6	5.1	5.3	6.0	6.2	6.5	6.9	6.7
90°	2.9	4.9	7.0	8.9	11.2	13.8	16.5	19.1	21.7	22.5	23.3
92.5°	23.2	24.6	25.9	27.3	28.7	30.2	31.7	33.2	34.7	35.3	35.9
95°	54.7	56.1	57.5	58.9	60.5	62.1	63.7	65.3	66.9	67.7	68.5
97.5°	95.7	96.8	97.8	98.9	100.0	101.1	102.3	103.4	104.6	105.6	106.5
100°	124.0	125.3	126.4	127.7	128.8	129.8	130.8	131.8	132.8	133.4	134.0
102.5°	156.1	156.9	157.6	158.3	159.3	160.6	161.9	163.3	164.6	165.2	165.8
105°	203.7	204.1	204.5	204.9	206.0	207.8	209.6	211.4	213.2	213.2	213.2
107.5°	259.1	259.4	259.7	259.8	260.4	261.1	261.8	262.5	263.2	263.9	264.6
110°	294.0	294.4	294.8	295.2	295.6	296.0	296.4	296.9	297.2	298.0	298.8





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	330.0	330.2	330.5	330.7	330.8	330.9	331.0	331.1	331.2	332.2	333.1
115°	384.5	385.1	385.8	386.4	386.5	386.0	385.7	385.2	384.9	385.0	385.2
117.5°	438.9	439.3	439.7	440.1	440.1	439.5	439.0	438.5	438.0	437.9	437.9
120°	473.7	474.9	476.1	477.3	477.4	476.4	475.4	474.4	473.4	473.1	473.0
122.5°	508.8	509.7	510.5	511.4	511.6	511.1	510.6	510.1	509.5	509.0	508.5
125°	562.5	563.1	563.7	564.4	564.5	564.0	563.7	563.2	562.8	562.0	561.2
127.5°	613.1	614.4	615.6	616.9	617.3	616.9	616.4	616.0	615.5	614.5	613.3
130°	646.7	648.3	649.9	651.5	651.9	651.4	650.8	650.1	649.5	648.7	647.9
132.5°	679.8	681.4	683.1	684.7	685.3	684.8	684.4	683.9	683.5	682.5	681.6
135°	730.2	731.5	732.6	733.9	734.3	734.1	734.0	733.8	733.5	732.7	731.9
137.5°	777.0	778.0	779.0	780.1	780.8	781.3	781.9	782.4	782.9	782.0	781.2
140°	809.6	810.6	811.5	812.5	813.2	813.3	813.6	813.8	814.0	813.8	813.6
142.5°	839.2	840.2	841.2	842.2	842.8	843.2	843.6	844.0	844.4	844.1	843.9
145°	884.8	885.2	885.6	886.0	886.5	887.2	887.8	888.3	888.9	888.8	888.6
147.5°	925.6	926.3	927.1	927.8	928.4	929.0	929.6	930.1	930.7	930.7	930.7
150°	953.5	953.9	954.3	954.7	955.1	955.5	955.9	956.3	956.7	956.7	956.7
152.5°	976.8	977.3	977.9	978.5	978.8	979.1	979.4	979.6	979.8	980.2	980.4
155°	1012.7	1012.7	1012.7	1012.7	1012.8	1013.0	1013.3	1013.4	1013.6	1014.4	1015.2
157.5°	1043.6	1043.3	1043.0	1042.9	1042.8	1042.9	1043.1	1043.3	1043.4	1044.3	1045.1
160°	1062.9	1062.5	1062.1	1061.7	1061.5	1061.5	1061.5	1061.5	1061.5	1062.5	1063.5
162.5°	1080.1	1079.5	1079.0	1078.4	1078.2	1078.3	1078.5	1078.7	1078.9	1079.9	1080.8
165°	1102.4	1101.9	1101.3	1100.6	1100.4	1100.4	1100.4	1100.4	1100.4	1101.5	1102.8
167.5°	1120.2	1119.4	1118.6	1117.8	1117.4	1117.6	1117.8	1117.9	1118.0	1119.3	1120.5
170°	1130.2	1129.4	1128.6	1127.8	1127.5	1127.5	1127.5	1127.5	1127.5	1128.8	1130.2
172.5°	1138.2	1137.4	1136.6	1135.8	1135.4	1135.4	1135.4	1135.4	1135.4	1136.7	1137.9
175°	1146.6	1145.8	1145.0	1144.2	1143.7	1143.7	1143.7	1143.7	1143.7	1145.0	1146.1
177.5°	1150.1	1149.5	1148.8	1148.2	1147.9	1147.9	1147.9	1147.9	1147.9	1148.8	1149.8
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	485.3	485.3	485.3	485.3	485.3	485.3	485.3
2.5°	511.9	511.9	512.6	515.1	515.4	517.5	516.9
5°	562.6	566.5	568.0	574.3	577.9	579.6	576.3
7.5°	624.6	635.7	641.0	647.6	653.3	655.1	650.5
10°	669.8	681.4	691.2	697.2	702.8	706.6	711.3
12.5°	713.5	727.8	737.1	745.6	751.4	756.1	756.9
15°	761.0	782.6	799.0	811.1	817.1	820.2	818.9
17.5°	808.9	828.9	840.6	852.9	861.2	861.7	861.9
20°	836.0	855.5	869.1	878.2	887.5	887.1	889.2
22.5°	854.1	869.5	879.9	886.4	889.7	888.1	888.5
25°	862.6	867.2	865.3	854.7	851.9	842.2	843.9
27.5°	818.9	797.3	774.9	746.2	723.4	705.3	706.2
30°	759.6	721.3	677.7	641.1	608.3	599.1	579.6
32.5°	676.6	619.3	568.2	534.0	506.0	498.3	481.3
35°	536.0	480.3	427.8	396.2	383.7	366.2	366.0
37.5°	416.6	367.6	339.8	316.1	303.7	293.1	292.1
40°	350.4	312.3	291.2	274.2	262.0	254.0	252.2
42.5°	304.3	273.4	253.7	243.2	233.7	229.6	226.6
45°	248.4	227.7	214.0	204.5	200.1	197.0	195.3
47.5°	207.9	193.9	184.6	178.2	174.7	171.4	172.3
50°	185.7	174.3	167.5	161.4	158.7	156.4	156.7
52.5°	167.9	157.7	152.1	147.8	144.5	142.8	142.0
55°	142.5	136.1	130.5	127.3	125.5	123.2	122.6
57.5°	121.5	116.5	112.0	108.5	108.0	105.8	106.1
60°	107.6	103.4	99.7	97.8	96.4	94.5	95.1
62.5°	96.1	92.6	89.3	87.7	86.2	84.9	85.2
65°	78.7	75.4	73.3	72.5	71.9	71.2	70.6
67.5°	62.8	60.7	59.4	57.6	56.4	56.2	55.6
70°	52.8	50.0	47.8	45.5	44.9	44.7	44.9
72.5°	42.3	40.6	39.9	38.9	38.7	38.2	38.5
75°	31.7	31.1	30.8	29.9	29.9	29.9	29.9
77.5°	23.5	23.1	22.8	22.6	22.5	22.1	22.1
80°	18.3	18.1	17.7	17.7	17.5	17.7	17.5
82.5°	13.8	13.7	13.4	13.4	13.1	13.0	13.1
85°	7.0	6.9	7.3	6.9	7.0	6.7	7.0
87.5°	6.8	7.0	7.0	7.0	7.0	7.3	7.0
90°	24.1	24.9	25.5	25.9	26.3	26.7	27.1
92.5°	36.6	37.3	37.5	37.2	37.0	36.7	36.5
95°	69.3	70.1	70.4	70.4	70.4	70.4	70.4
97.5°	107.4	108.3	108.7	108.6	108.6	108.5	108.4
100°	134.6	135.2	135.7	136.1	136.5	136.9	137.3
102.5°	166.4	167.0	167.3	167.2	167.1	167.0	166.9
105°	213.2	213.2	213.4	213.8	214.2	214.6	215.0
107.5°	265.2	265.8	266.0	265.8	265.6	265.3	265.0
110°	299.6	300.4	300.6	300.2	299.8	299.4	299.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	334.0	335.0	335.5	335.4	335.3	335.3	335.2
115°	385.5	385.7	385.7	385.5	385.2	385.0	384.9
117.5°	437.8	437.8	437.5	436.9	436.4	435.8	435.2
120°	472.8	472.6	472.3	471.9	471.4	471.1	470.6
122.5°	507.9	507.5	506.8	506.3	505.8	505.2	504.6
125°	560.4	559.6	558.8	558.0	557.2	556.4	555.6
127.5°	612.2	611.1	610.0	609.1	608.2	607.3	606.4
130°	647.1	646.3	645.2	643.8	642.4	641.1	639.6
132.5°	680.6	679.7	678.7	677.5	676.5	675.4	674.3
135°	731.1	730.3	729.8	729.3	729.0	728.5	728.2
137.5°	780.3	779.5	778.7	777.9	777.2	776.4	775.7
140°	813.3	813.2	812.3	810.9	809.6	808.2	806.7
142.5°	843.7	843.6	842.8	841.8	840.7	839.6	838.6
145°	888.3	888.1	887.6	886.8	886.0	885.2	884.4
147.5°	930.7	930.7	930.1	928.9	927.6	926.5	925.2
150°	956.7	956.7	956.1	954.9	953.7	952.5	951.3
152.5°	980.8	981.1	980.8	979.7	978.7	977.6	976.6
155°	1016.0	1016.8	1016.6	1015.1	1013.7	1012.4	1010.9
157.5°	1046.0	1046.8	1046.7	1045.5	1044.5	1043.3	1042.1
160°	1064.5	1065.5	1065.6	1064.8	1064.0	1063.2	1062.4
162.5°	1081.8	1082.9	1082.7	1081.5	1080.1	1078.9	1077.5
165°	1103.9	1105.2	1105.1	1103.7	1102.2	1100.8	1099.5
167.5°	1121.8	1123.0	1123.0	1121.8	1120.5	1119.3	1118.0
170°	1131.7	1133.1	1133.1	1131.7	1130.2	1128.8	1127.5
172.5°	1139.2	1140.4	1140.3	1138.9	1137.5	1136.0	1134.7
175°	1147.4	1148.5	1148.4	1147.0	1145.6	1144.2	1142.8
177.5°	1150.8	1151.7	1151.6	1150.5	1149.4	1148.3	1147.2
180°	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0	1150.0

(END OF REPORT)